

### Abstract of the Invention

The present invention provides a crystal of the extracellular domain of mammalian DPP-IV, wherein the crystal has an orthorhombic space group of  $P2_12_12_1$  and one homodimer of DPP-IV in the asymmetric unit. Also provided is a co-crystal which includes a ligand bound to the active site of mammalian DPP-IV. The invention permits the identification or design of inhibitor compounds of DPP-IV activity, for use in treatment of type II diabetes.

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